

PROJECT DESCRIPTION

GENERAL

THIS PORTION OF THE PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 45 (YORK ROAD) AND CROSS CAMPUS DRIVE IN BALTIMORE COUNTY. MD 45 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION IS OPERATING IN A NEMA FOUR-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH THE MD 45 APPROACHES OPERATING CONCURRENTLY AND THE CROSS CAMPUS DR. APPROACHES OPERATING SPLIT.

CONTROLLER REQUIREMENTS

USE EXISTING POLE MOUNTED CABINET AND CONTROLLER.

MAINTENANCE OF TRAFFIC

THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT.

STANDARD NO. MD-104.00 - 104.00-30 STANDARD NO. MD-104.45-01 (RIGHT LANE CLOSURE)
STANDARD NO. MD-104.37-01 (LEFT LANE CLOSURE) STANDARD NO. MD-104.48-01 (INTERSECTION TURN BAY LANE CLOSURE)
STANDARD NO. MD-104.38-01 (RIGHT LANE CLOSURE) STANDARD NO. MD-104.49-01 (SHOULDER WORK)
STANDARD NO. MD-104.41-01 (INTERSECTION FAR-RIGHT LANE CLOSURE)
STANDARD NO. MD-104.43-01 (SHOULDER WORK)
STANDARD NO. MD-104.44-01 (LEFT LANE CLOSURE)

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MR. RANDALL SCOTT
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 321-2781

MR. JOSEPH McMAHON
DISTRICT UTILITIES ENGINEER
PHONE: (410) 321-2841

MR. DAVE RAMSEY
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 321-2761

MR. RICHARD L. DAFF, SR.
CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

WIRING DIAGRAM

WIRING KEY

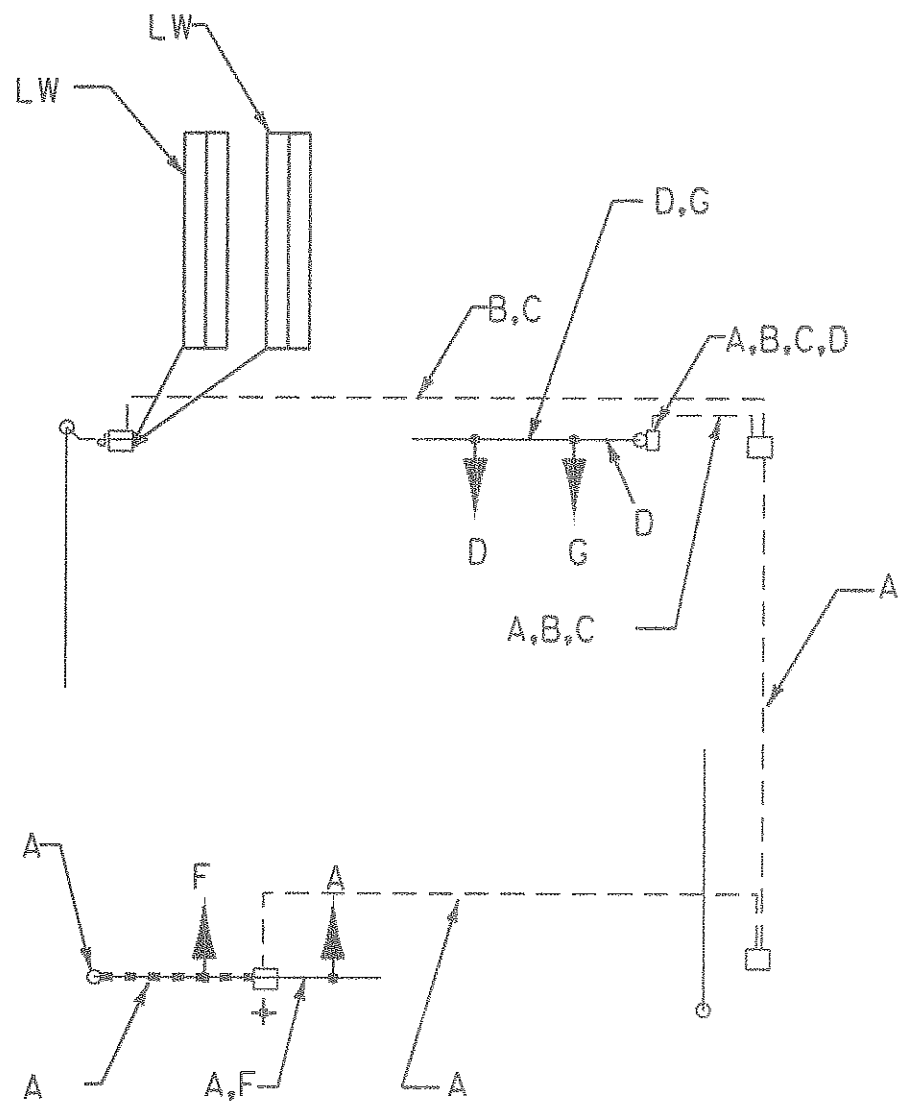
A } 7-CONDUCTOR ELECTRICAL
D } CABLE (NO. 14 A.W.G.)

B } EXISTING 2-CONDUCTOR ELECTRICAL
C } CABLE ALUMINUM SHIELDED
(NO. 14 A.W.G.)

F } 5-CONDUCTOR ELECTRICAL
G } CABLE (NO. 14 A.W.G.)

LW - LOOP WIRE (NO. 14 A.W.G.)

+ - 3/4 IN. X 10 FT. GROUND ROD



EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

CATEGORY CODE	QUANTITY	DESCRIPTION
973023	5 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF : - 1 EACH R4-7 (MOD.) SIGN(24 IN. x 30 IN.) - MAST ARM MOUNT

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

CATEGORY CODE NO.	QUANTITY	DESCRIPTION
585462	15 L.F.	REMOVAL OF EXISTING PAVEMENT MARKING - ANY WIDTH
655104	120 SF.	4 IN. CONCRETE SIDEWALK
860272	25 EA.	FURNISH AND INSTALL 12 IN. VEHICULAR TRAFFIC SIGNAL HEAD SECTION
800000	1 EA.	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT AS PER ASSIGNMENT
805160	10 L.F.	FURNISH AND INSTALL 1 IN. LIQUID-TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE.
813015	5 EA.	INSTALL OVERHEAD SIGN
837001	1 EA.	FURNISH AND INSTALL GROUND ROD - 3/4 INCH DIAMETER x 10 FOOT LENGTH
861107	40 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.)
861108	350 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.)
862101	750 L.F.	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 A.W.G.)
862102	230 L.F.	FURNISH AND INSTALL SAW CUT FOR SIGNAL (LOOP DETECTOR)
800000	25 L.F.	FURNISH AND INSTALL 1 1/2 IN. PVC SCHEDULE 80 CONDUIT (TRENCHED).

EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA

ALL REMOVED SIGNAL MATERIALS SHALL BECOME PROPERTY OF THE CONTRACTOR

PHASE CHART

1	2	3	4	5	6	7	8	9	10	11	12
(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(H)	(H)	(H)	(H)
(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(P)	(P)	(P)	(P)
(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)				

PHASE 2 + 6	G	G	G	G	R	R	R	R	WK	WK	DW	DW	
PED CLEARANCE	G	G	G	G	R	R	R	R	FL/DW	FL/DW	DW	DW	
2 + 6 CHANGE	Y	Y	Y	Y	R	R	R	R	DW	DW	DW	DW	
PHASE 3	R	R	R	R	G	G	R	R	DW	DW	DW	DW	
3 CHANGE	R	R	R	R	Y	Y	R	R	DW	DW	DW	DW	
PHASE 4	R	R	R	R	R	R	G	G	DW	DW	DW	DW	
4 CHANGE	R	R	R	R	R	R	Y	Y	DW	DW	DW	DW	
PHASE 4 ALT	R	R	R	R	R	R	G	G	DW	DW	WK	WK	
PED CLEARANCE	R	R	R	R	R	R	G	G	DW	DW	FL/DW	FL/DW	
4 ALT CHANGE	R	R	R	R	R	R	Y	Y	DW	DW	DW	DW	
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	



Whitman, Reardon
and Associates, LLP

801 South Caroline Street
Baltimore, Maryland 21231
(410) 235-3450



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION SHEET
MD 45 (YORK ROAD) AT CROSS CAMPUS DR.

DRAWN BY: B.DONOWAY	F.A.P. NO. N/A	TS NO. 4184A-61	SHEET NO.
CHECKED BY: B. MARTINE	S.H.A. NO. N/A	T.I.M.S. NO.	
SCALE: NONE	COUNTY: BALTIMORE		